

FIG. 1

UMID ASSIGNMENT FROM PROXY & TAPE VOLUME DATA

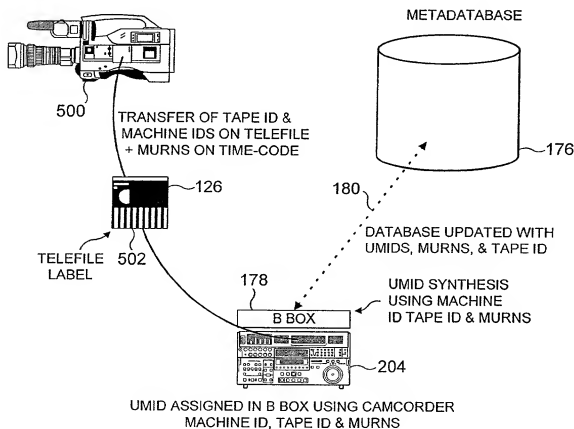


FIG. 2

UMID ASSIGNMENT FROM PROXY & TAPE VOLUME DATA

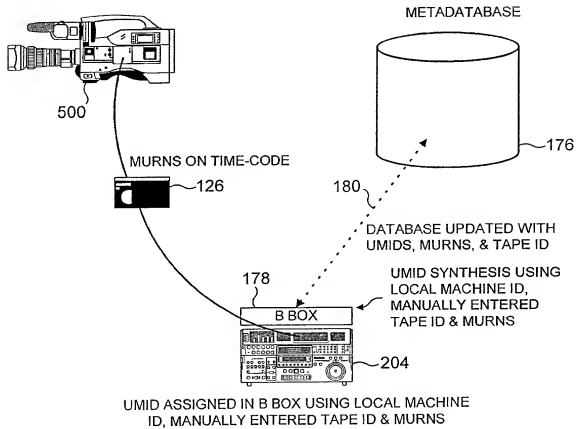


FIG. 3

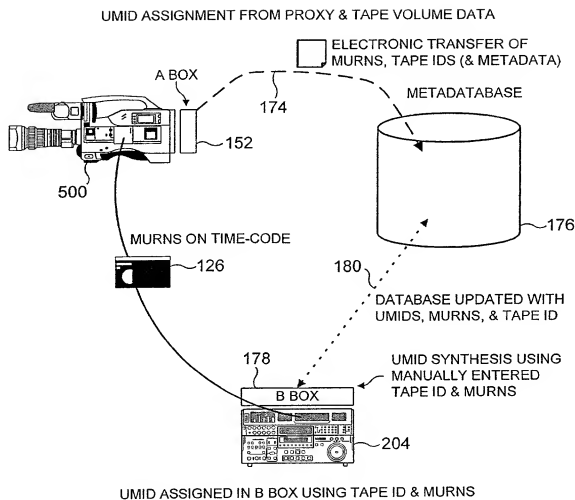


FIG. 4

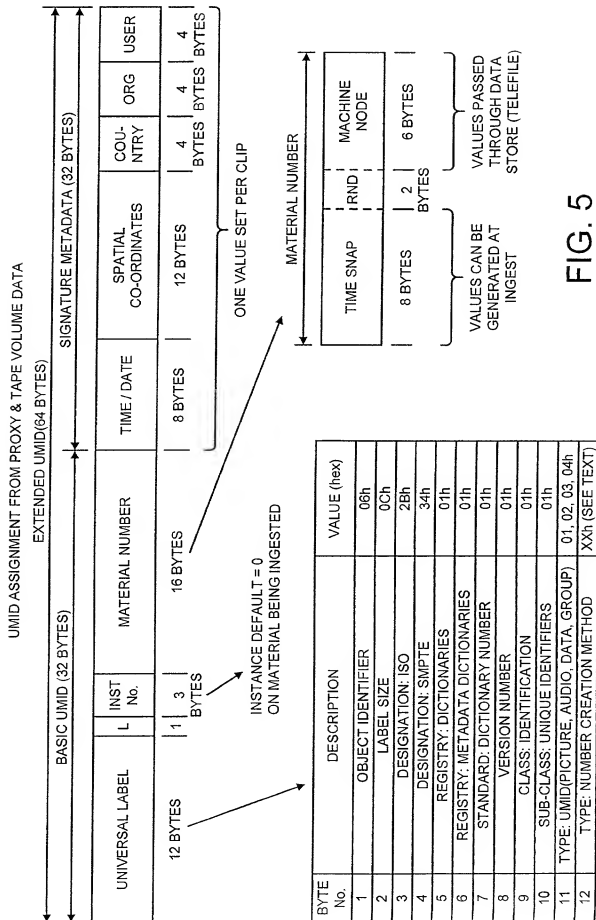


FIG. 5

UMID TYPE (BYTE 11) DEFAULT = 04h
CREATION TYPE (BYTE 12) SET LOCALLY AT INGEST

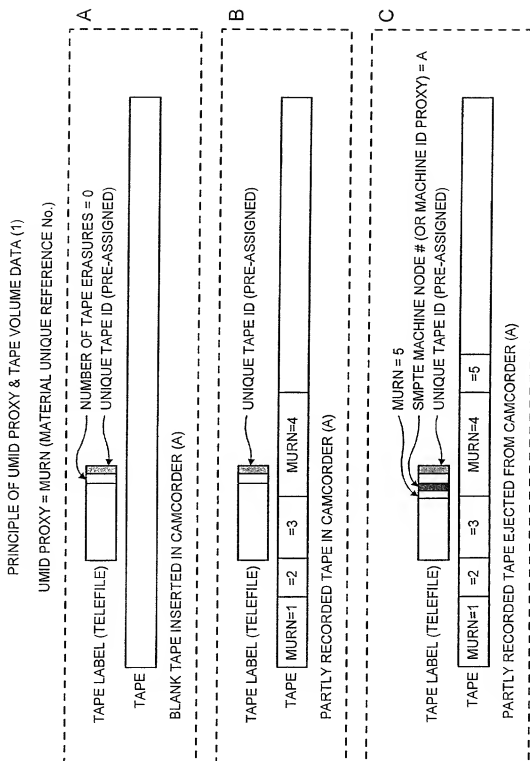


FIG. 6

PRINCIPLE OF UMID PROXY & TAPE VOLUME DATA (2)

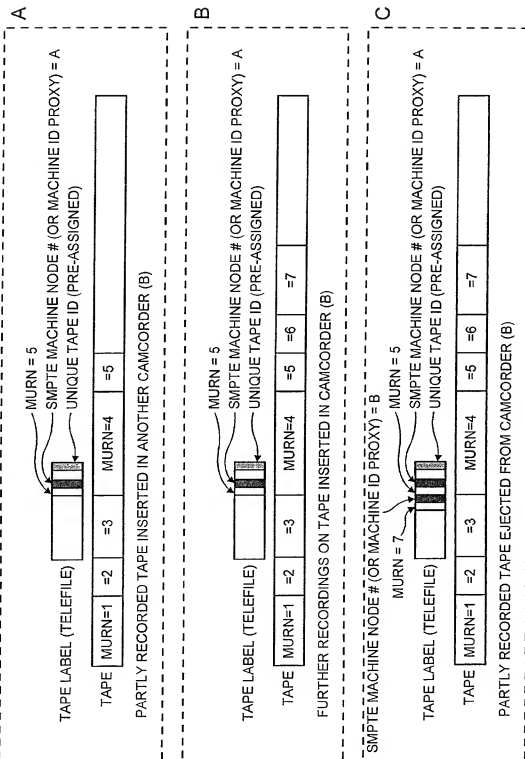


FIG. 7

PRINCIPLE OF UMD PROXY & TAPE VOLUME DATA (3)

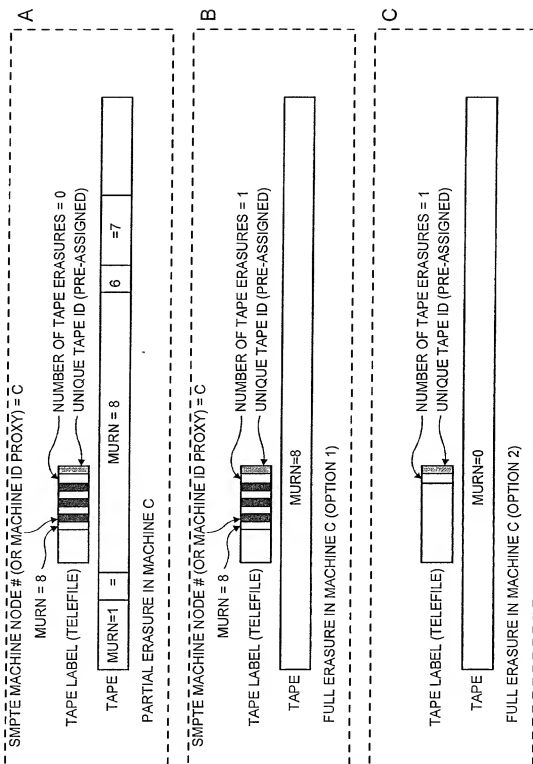


FIG. 8

UMID PROXY & SIMPLIFIED TAPE EDITING RULES

MURN TREATS ALL TAPE CONTENT AS GROUPS ($V + A_1 \dots A_n$). EVERY TAPE EDIT EVENT GENERATES A NEW MURN. METADATABASE MANAGES TRUE UMID INFORMATION USING UNIQUE TAPE ID & MURN

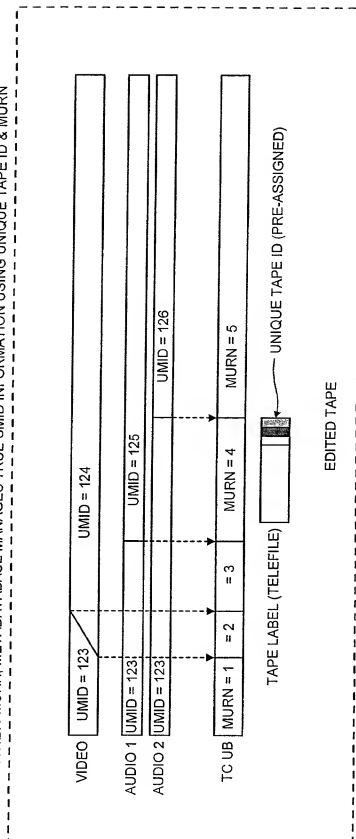


FIG. 9

UMID PROXY & SIMPLIFIED TAPE EDITING RULES

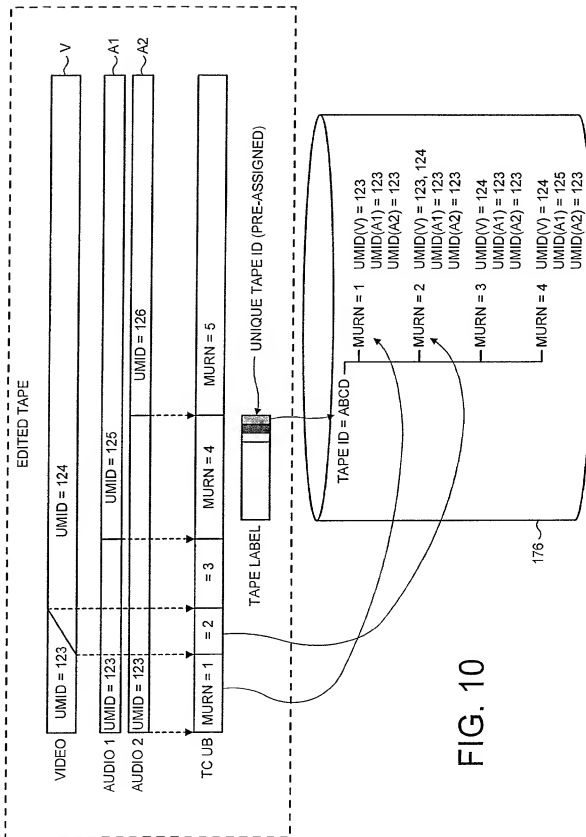
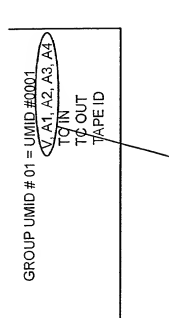


FIG. 10

UMID PROXY & SIMPLIFIED TAPE EDITING RULES INSERT EDIT WITH VTR ITSELF (VO OR SOUND EFFECT)

V	UMID #0001
A1	UMID #0001
A2	UMID #0001
A3	UMID #0001
A4	UMID #0001
UMID	Gp UMID #01



THE EFFECTIVE SCOPE OF GROUP UMID

V	UMID #0001
A1	UMID #0001
A2	UMID #0001
A3	UMID #0001
A4	UMID #0001
UMID	UMID #01 (Gp)

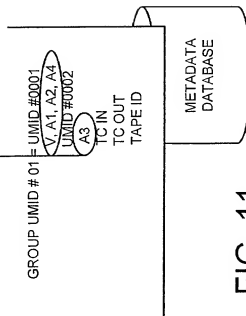


FIG. 11

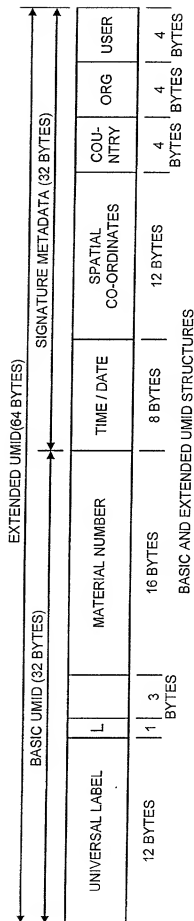


FIG. 12

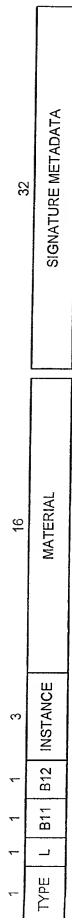
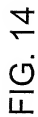
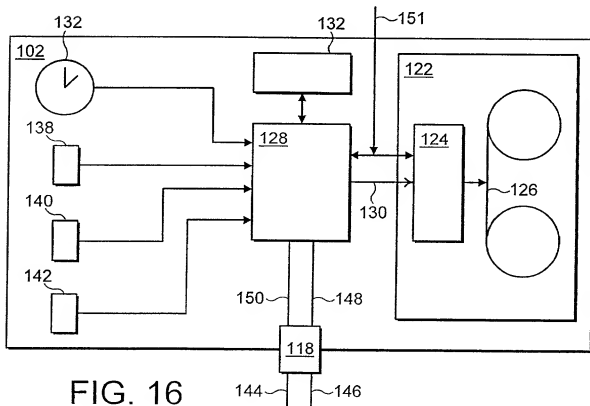
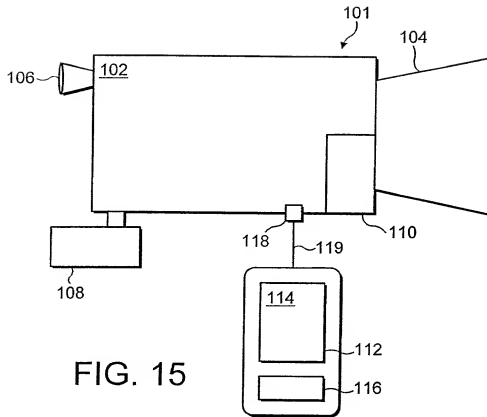


FIG. 13





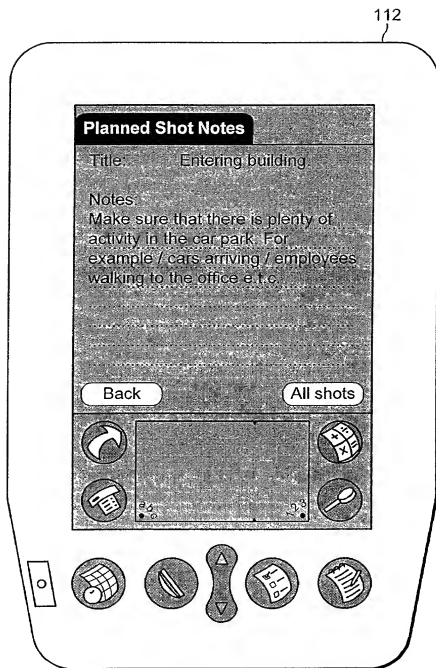


FIG. 17

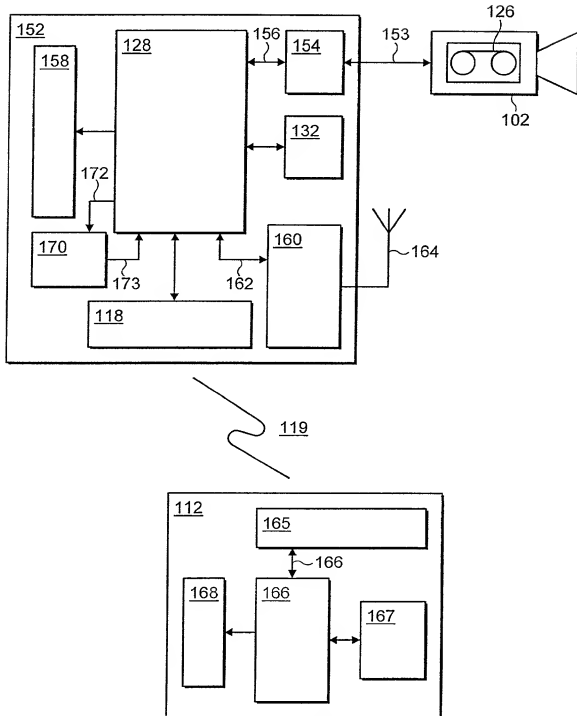


FIG. 18

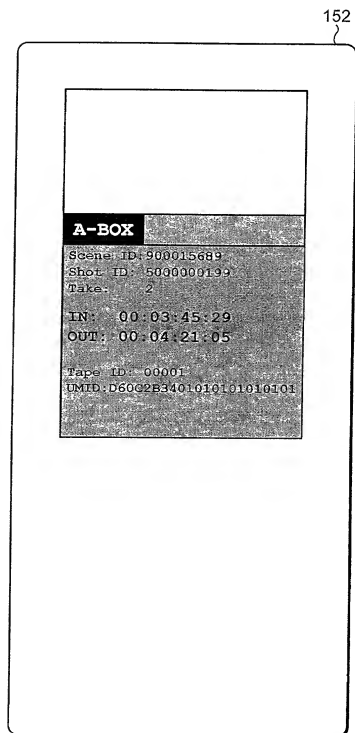


FIG. 19

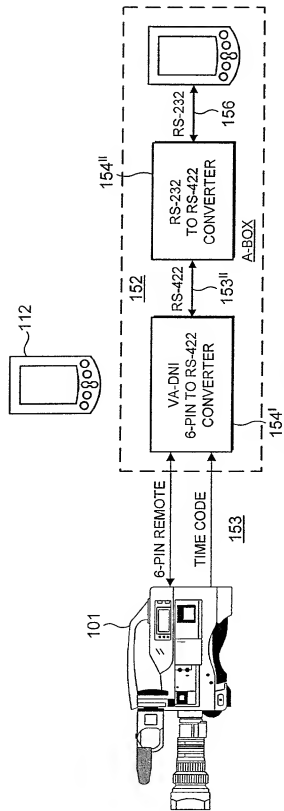


FIG. 20

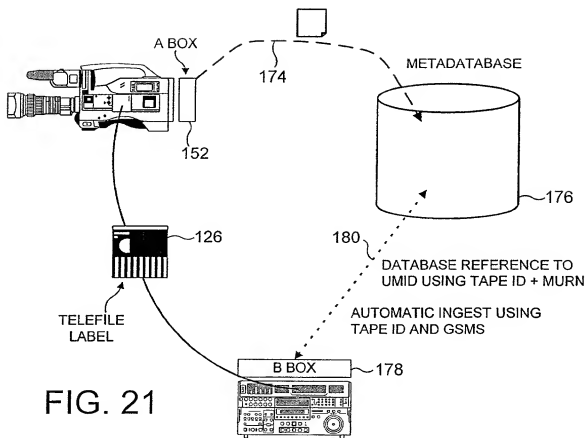


FIG. 21

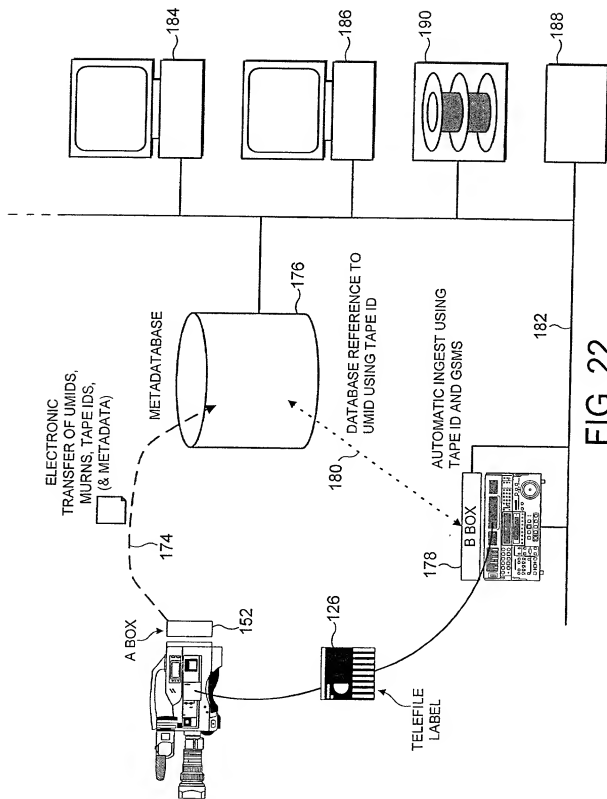
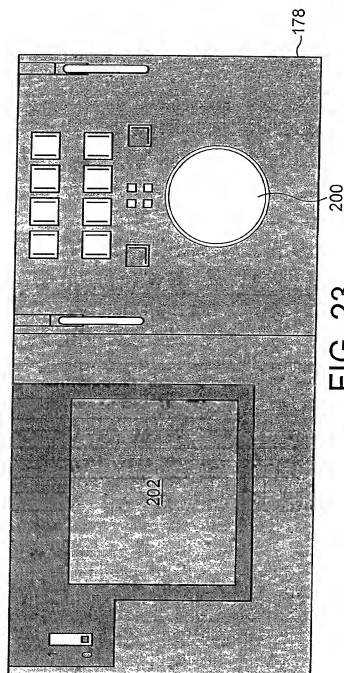


FIG. 22



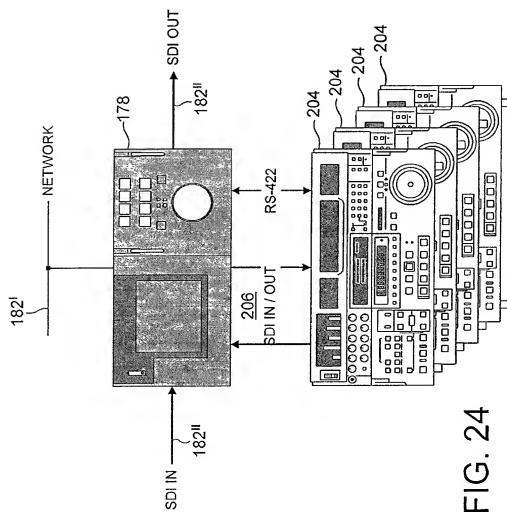
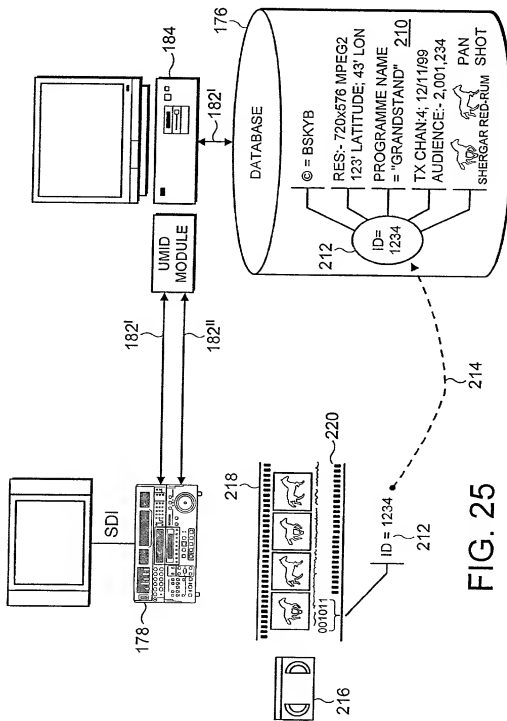


FIG. 24



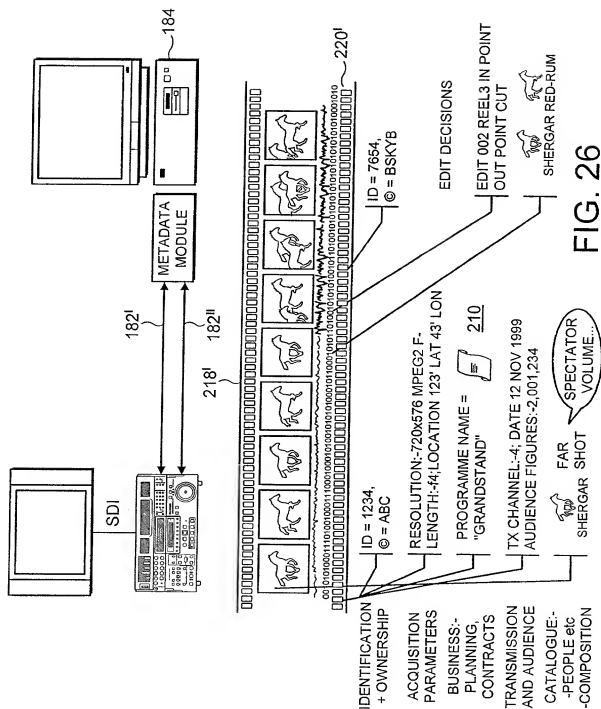
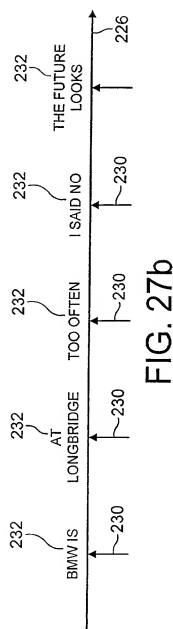
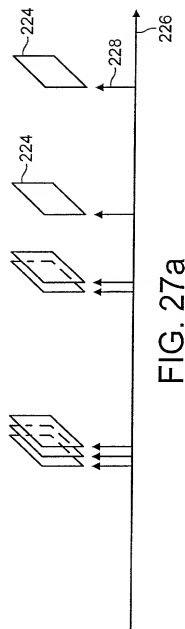


FIG. 26



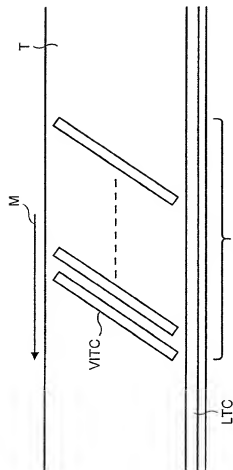


FIG. 28

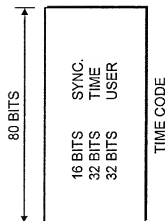


FIG. 29

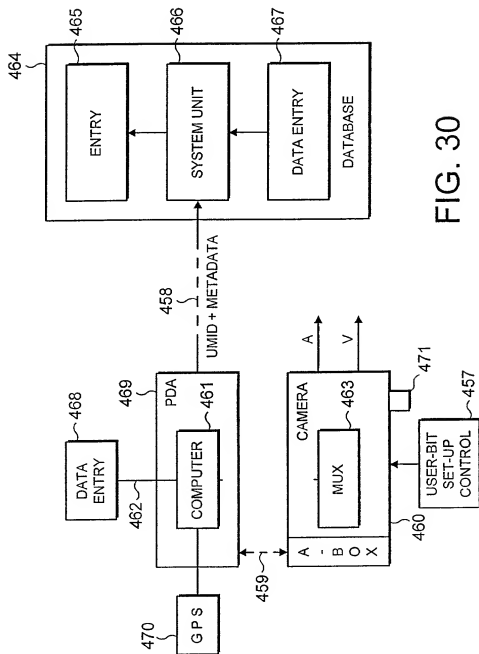


FIG. 30

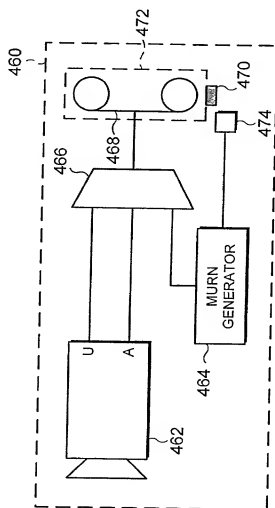


FIG. 31

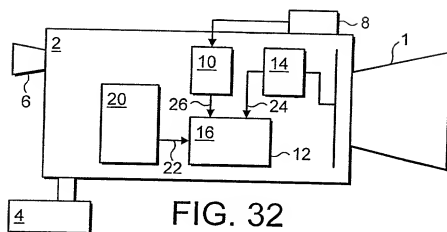


FIG. 32

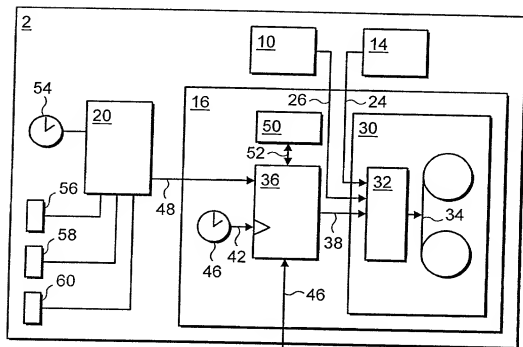


FIG. 33

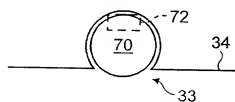


FIG. 34a

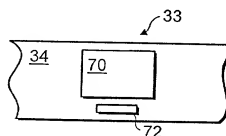


FIG. 34b

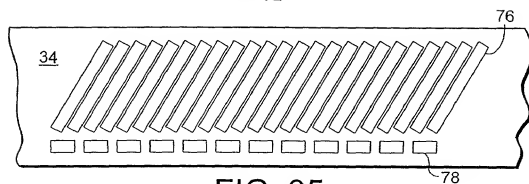


FIG. 35

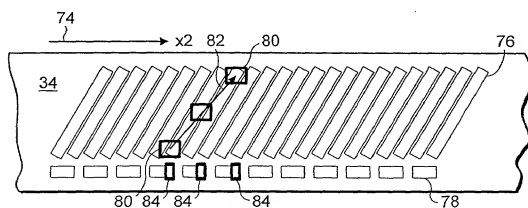


FIG. 36a

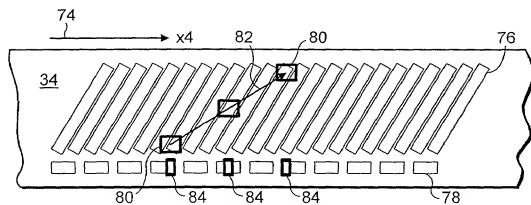


FIG. 36b

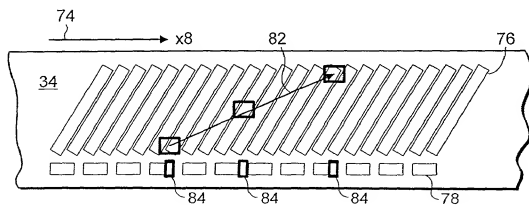


FIG. 36c

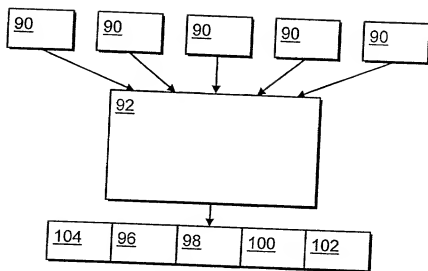


FIG. 37

0	0	0	0	1	1	1	2	2	2	2	0	1	2	3
R	R	R	R	G	G	G	E	E	E	E	0	1	1	8
E	E	E	E	R	R	R	N	N	N	N	1	9	3	--
D	D	D	D	E	E	E	E	--	--	--	1	9	2	--

Diagram illustrating the layout of the 15 columns of the 4x15 grid. The columns are grouped into four sets of four columns each, labeled 104, 106, 108, and 110. The first four columns (0-3) are labeled 94. The next four columns (4-7) are labeled 94. The next four columns (8-11) are labeled 94. The last four columns (12-15) are labeled 94.

FIG. 38

X8	R	R	R	R	R	R	R	E	E	E	E	E	E	E
X4	G	G	G	G	R	R	R	E	E	E	E	E	E	E
X2	B	B	L	L	U	U	E	E						
X1	0	1	1	1	9	9	1	3	2	8				

↑TC ↑TC

FIG. 39

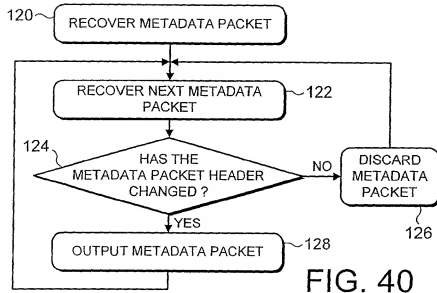


FIG. 40

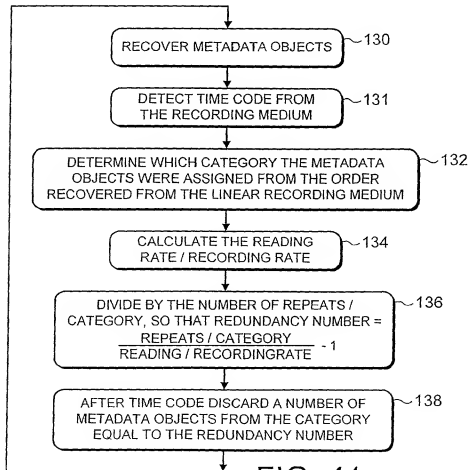


FIG. 41